

### Amendments To The Specification

Please replace the paragraph beginning on page 5, line 26 with the following:

C1 The space downstream of the fiber bundle defines an optical space 24 ~~which~~ that may be filled with a clear or translucent aqueous solution supplied through the catheter from the proximal end (~~not shown~~) thereof ~~through proximal end catheter port 150~~ (see Fig. 5).

Please replace the paragraph beginning on page 6, line 9 with the following:

C2 Figs. 3A-3D show the positioning of a distal end portion of the apparatus within a chamber of a heart 26, for accessing a vascular target region of the heart in need of phototherapy. Initially, although not shown, the patient is administered a photosensitizing compound, typically by systemic administration, and the compound is allowed to accumulate at the target site, according to known phototherapy principles. ~~A broader view of a patient or Exemplary~~ Exemplary photosensitizing compounds are those used in phototherapy, such as a phycocyanin, a phthalocyanine, pheophorbide derivative PH-1126, mono-L-aspartyl chlorin e6 (NPe6), hematoporphyrin derivative (HpD), benzoporphyrin derivative (BPD), Photofrin and Photofrin 2, protoporphyrin IX, and dihematoporphyrin -ester and -ether (DHE).

Please replace the paragraph beginning on page 7, line 3 with the following:

C3 With the catheter so positioned, the guidewire is removed from the catheter and replaced with a fiber bundle 37 ~~which~~ that is advanced through the catheter lumen to place the end of the fiber bundle either upstream of the distal-end space corresponding to the target region (Fig. 3C) , or within this space (Fig. 3D), as noted above. Following this placement, aqueous liquid, such as saline solution or ionic contrast, is forced through the catheter lumen from the catheter's ~~distal~~ proximal end, to either fill the distal-end optical space of the catheter with a clear or translucent fluid for the method illustrated in Fig. 3C, or to fill the annulus between the fiber bundle and catheter distal end with fluid, as in the method illustrated in Fig. 3D.